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Manuscript Type: CASE REPORT

Rare complication of ²inflammatory bowel disease-like colitis from glycogen storage disease type 1b and its surgical management: A case report

Lui CWF *et al*, GSD-1b

Chi Wai Frederick Lui, Oswens Siu-Hung Lo

Abstract

¹BACKGROUND

Glycogen storage disease (GSD) is an autosomal recessive inborn metabolic disorder. Patients with GSD are prone to hypoglycaemia, hyperlactacidemia and bleeding. GSD type 1b (GSD-1b) patients specifically can develop neutropenia, recurrent bacterial infection and inflammatory bowel disease (IBD). Documentation of the long-term

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We present a case of iliopsoas abscess secondary to inflammatory bowel disease associated to glycogen storage disease 1b in a 12-year-old boy. To the best of our knowledge, a similar case ...

Advanced Understanding of Monogenic Inflammatory Bowel ...

<https://www.frontiersin.org/articles/10.3389/fped.2020.618918...>

Jan 22, 2021 · Inflammatory bowel disease (IBD) is a group of chronic disorders that cause relapsing inflammation in the gastrointestinal tract and comprise three major subgroups of Crohn's disease (CD), ulcerative colitis (UC), and IBD-unclassified (IBDU). Recent advances in genomic technologies have furthered our understanding of IBD pathogenesis. It includes differentiation rare monogenic disorders ...

Author: Ryusuke Nambu, Aleixo M. Muise Publish Year: 2021

Iliopsoas abscess as a complication of glycogen storage ...

<https://www.sciencedirect.com/science/article/pii/S2213576616301944>

Jan 01, 2017 · Glycogen storage disease (GSD) 1b is a rare autosomal recessive disorder caused by mutation of the gene encoding glucose-6 phosphate translocase (SLC37A4), which functions as transporter for glucose-6 phosphate across the microsomal membrane , , . The incidence of GSD 1 is 1/100,000 live births and it is estimated that type 1b represent 15–20% of all cases , .

Author: Marcos Prada-Arias, Javier Gómez-Ve... Publish Year: 2017

Crohn's-like ileo-colitis in patients affected by glycogen ...

<https://www.researchgate.net/publication/8689101...>

Purpose: Glycogen storage disease type 1b (GSD1b) is a rare autosomal recessive metabolic defect of glycogenolysis and gluconeogenesis which results from a deficiency of the glucose-6-phosphate ...

Antibodies to CBir1 Are Associated With Glycogen Storage ...

<https://journals.lww.com/jpgn/Fulltext/2010/07000/...>

Objectives: Glycogen storage disease (GSD) type 1b is a congenital disorder of glycogen metabolism that is associated with neutropenia, neutrophil and monocyte dysfunction, and an inflammatory bowel disease (IBD) that mimics a Crohn disease phenotype. The enteric microflora is implicated in the pathogenesis of IBD; however, its role in the development of GSD-associated IBD is unknown.



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2001-5-1 · Introduction. **Glycogen storage disease (GSD) type-1b** (MIM #232220) is an inherited metabolic disorder in which glucose-6-phosphate cannot be converted to glucose due to the deficiency of the microsomal transport system for glucose-6-phosphate in the liver (1, 2). Hypoglycemia, hepatomegaly, and growth failure are the common clinical symptoms of GSD **type 1**, while neutropenia and neutrophil ...

Cited by: 60 Author: Tomoko Yamaguchi, Kenji Ihara, Takayuki ...
Publish Year: 2001

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Chronic **inflammatory bowel disease (IBD)-like colitis** is occasionally associated with **glycogen storage disease-type 1b (GSD-1b)**. We describe a 17-year old boy with GSD-1b who developed an **IBD-like colitis**. Roentgenography and colonoscopy showed the lead-pipe appearance of the colon and circumferenti ...

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Inflammatory bowel disease-like colitis in glycogen ... [翻译此页](#)<https://www.onlinelibrary.wiley.com/doi/full/10.1097/00054725-200105000-00008>

2006-12-14 · Chronic **inflammatory bowel disease (IBD)-like colitis** is occasionally associated with **glycogen storage disease-type 1b (GSD-1b)**. We describe a 17-year old boy with GSD-1b who developed an **IBD-like colitis**. Roentgenography and colonoscopy showed the lead-pipe appearance of the colon and circumferential ulcers.

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2006-12-14 · Chronic **inflammatory bowel disease (IBD)-like colitis** is occasionally associated with **glycogen storage disease-type 1b (GSD-1b)**. We describe a 17-year old boy with GSD-1b who developed an **IBD-like colitis**. Roentgenography and colonoscopy showed the lead-pipe appearance of the colon and circumferential ulcers.

Cited by: 60 Author: Tomoko Yamaguchi, Kenji Ihara, Takayuki ...
Publish Year: 2001

Inflammatory Bowel Disease in Glycogen Storage ... [翻译此页](#)<https://journals.lww.com/jpgn/Fulltext/2017/02000/...>

2020-5-10 · **Glycogen storage disease (GSD) type I** is an autosomal recessive disorder of **glycogen** metabolism that affects 1 in 100,000 live births .The disorder is caused by mutations in genes that encode for glucose-6-phosphatase (**type Ia**) and glucose-6-phosphate (G6P) translocase (**type Ib**) .Complications of GSD are difficulty maintaining glucose homeostasis, renal **disease**, hepatic adenomas ...

Inflammatory bowel disease in glycogen storage ... [翻译此页](#)<https://www.sciencedirect.com/science/article/pii/S0022347686805728>

1986-7-1 · **Inflammatory bowel disease in storage disease type Ib glycogen** We have observed the development of chronic **inflammatory bowel disease**, indistinguishable from Crohn **disease**, in two boys with **glycogen storage disease type Ib (GSD-Ib)**. A chance association of these diseases in ...

Cited by: 89 Author: Thomas F. Roe, Daniel W. Thomas, Vicent ...
Publish Year: 1986

(PDF) Inflammatory Bowel Disease in Glycogen ... [翻译此页](#)https://www.researchgate.net/publication/266746962_Inflammatory_Bowel_Disease_in...

PDF | On Oct 8, 2014, Nicole T Lawrence and others published **Inflammatory Bowel Disease in Glycogen Storage Disease Type Ia: A Case Series** | Find, read and cite all the research you need on ...

Type Ib Glycogen Storage Disease: Practice Essentials ... [翻译此页](#)<https://emedicine.medscape.com/article/119412-overview>

2020-9-15 · Salapata Y, Laskaris G, Drogari E. Oral manifestations in **glycogen storage disease type 1b**. J Oral Pathol Med. 1995 Mar. 24(3):136-9. . Saltik-Temizel IN, Koçak N, Ozen H, et al. **Inflammatory bowel disease-like colitis** in a young Turkish child with **glycogen storage disease type 1b ...**

Antibodies to CBir1 are associated with glycogen ... [翻译此页](#)<https://europepmc.org/article/PMC/PMC2893276>

2010-7-1 · Objectives. **Glycogen storage disease (GSD) type Ib** is a congenital disorder of **glycogen** metabolism that is associated with neutropenia, neutrophil and monocyte dysfunction, and an **inflammatory bowel disease (IBD)** that mimics a Crohn's **disease** phenotype.

Cited by: 12 Author: Michael K Davis, John F Valentine, David ...
Publish Year: 2010

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Author: Marcos Prada-Arias, Javier Gómez-Veir... **Publish Year:** 2017

[Brief Report: Treatment of Chronic Inflammatory Bowel ...](https://www.nejm.org/doi/full/10.1056/NEJM199206183262504)

<https://www.nejm.org/doi/full/10.1056/NEJM199206183262504>

GLYCOGEN storage disease Type 1b is a rare hereditary metabolic disorder characterized by growth failure, hepatomegaly, hypoglycemia, lactic acidosis, and neutrophil deficiency. 1, 2 Except for ...

Cited by: 141 **Author:** Thomas F. Roe, Thomas D. Coates, Daniel ...

Publish Year: 1992

[\(PDF\) Inflammatory Bowel Disease in Glycogen Storage ...](https://www.researchgate.net/publication/266746962...)

<https://www.researchgate.net/publication/266746962...>

Most patients with **glycogen storage disease** (GSD) **type 1b** show features related to **inflammatory bowel disease** (IBD). The development of IBD seems to be associated with the defect of neutrophil ...

[Glycogen Storage Disease Type I - NORD \(National ...](https://rarediseases.org/rare-diseases/glycogen-storage-disease-type-i)

<https://rarediseases.org/rare-diseases/glycogen-storage-disease-type-i> ▾

Viser G, Rake JP, Fernandes, et al. Neutropenia, neutrophil dysfunction, and **inflammatory bowel disease** in **glycogen storage disease type 1b**: results of the European study on **glycogen storage disease type 1**. ...

[Treating neutropenia and neutrophil dysfunction in ...](https://www.sciencedirect.com/science/article/pii/S0006497120617591)

<https://www.sciencedirect.com/science/article/pii/S0006497120617591>

Aug 27, 2020 · **Brief report:** treatment of chronic **inflammatory bowel disease** in **glycogen storage disease type 1b** with colony-stimulating factors *N Engl J Med* , 326 (25) (1992) , pp. 1666 - 1669 View...

[Pediatric Inflammatory Bowel Disease: What Children Can ...](https://academic.oup.com/ibdjournal/article/11/6/519/4683986)

<https://academic.oup.com/ibdjournal/article/11/6/519/4683986> ▾

Jun 01, 2005 · Patients with **glycogen storage disease type 1b** also develop a Crohn's-like IBD with

Inflammatory Bowel Disease

Medical Condition

A group of intestinal disorders that cause inflammation of the digestive tract.

 Common (More than 200,000 cases per year in US)

 Often requires lab test or imaging

 Treatments can help manage condition, no known cure

 Can be lifelong

IBD is said to be the result of autoimmune reactions. Inflammatory bowel disease (IBD) presents as Crohn's disease or ulcerative colitis. It may be characterized by diarrhea, abdominal pain and cramping, tiredness, and weight loss. Anti-inflammatory drugs play an important role in the treatment. Surgery is sometimes performed.

Symptoms

Symptoms may vary from mild to severe and include:

- Diarrhea
- Fever
- Fatigue
- Blood in stool
- Bleeding ulcers
- Stomach pain
- Bloating and cramping
- Reduced appetite
- Unintended weight loss
- Anemia
- Flatulence

Treatments

Treatment of inflammatory bowel disease focuses on reducing inflammation that causes the symptoms which can eventually lead to complications. The treatment involves administering medication or performing surgery.

Medication

- Anti-inflammatory drugs: To reduce inflammation of the digestive tract.
 - Sulfasalazine
 - Corticosteroids